

[illegible]

detection means to detect voice and data signals at a connection point to said transmission medium;

a voice band filter connected to said return loss means said voice band filter isolating said voice band return loss signal from said data band signal.

detection means to detect voice and data signals at a connection point to said transmission medium;

a data band filter connected to said return loss means said data band filter isolating said data band return loss signal from said voice band signal.

detection means to detect voice and data signals at a connection point to said transmission medium;

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generating a voice band return signal to be forwarded to said connection point, said return signal being a representation of said voice band signal;

a data band return loss means monitoring said voice and data signals and generating a data band return signal to be forwarded to said connection point, said data band return signal being a representation of said data band signal;

a voice band filter connected to said return loss means said voice band filter isolating said voice band return loss signal from said data band signal; and

a data band filter connected to said return loss data band means, said data band filter isolating said data band return loss signal from said voice band signal.

4. A termination circuit as defined in claim 1, wherein said communications medium is a twisted copper pair.

5. A termination circuit as defined in claim 1, wherein said bi-directional communication is implemented utilizing a Digital Subscriber Line (DSL) scheme.

6. A system for canceling a transhybrid component and a near end echo from a data band signal at an communication system interface for bi-directional communication of voice and data band signals over a common communication medium, said circuit comprising:

an analog circuit to estimate said transhybrid component value and said near end echo value and to subtract said estimated values from an incoming data signal; and

an analog data band filter to restrict the estimation to said data band signal.

7. A system as defined in claim 6 having an analog to digital converter for digitizing said incoming data signal after said transhybrid component and near end echo have been canceled.

8. A system as defined in claim 7 having a voice band filter and a data band filter to receive said incoming signal, and to separate said incoming signal into separate voice band and data band signals for processing by separate analog to digital converters.

9. A system as defined in claim 7 having scaling means to receive said incoming signal and to independently scale said voice band signal and said data band signal and to add the scaled signals prior to processing by said analog to digital converter.

10. A system as defined in claim 7 having a voice band filter and a data band filter to receive said incoming signal, and to separate said incoming signal into separate voice band and data band signals, scaling means to scale each of said separated voice and data signals, and means to add said scaled voice and data band signals into a combined signal prior to processing by said analog to digital converter.

11. A method of terminating an interface to a connection point in a communication system for communicating voice and data band signals over a common communications medium comprising: providing an analog filter in a voice band return loss circuit to prevent voice band interference on the data band signal.

12. A method of terminating an interface to a connection point in a communication system for communicating voice and data band signals over a common communications medium comprising: providing an analog filter in a data band return loss circuit to prevent data band interference on the voice band signal.

13. A method of terminating an interface to a connection point in a communication system for communicating voice and data band signals over a common communications medium comprising: providing a first analog filter in a voice band return loss circuit to prevent voice band interference on the data band signal and providing a second analog filter in a data band return loss circuit to prevent data band interference on the voice band signal.

